I CLAIM:

- 2 1. A lamp assembly comprising:
- a lamp housing having a light-emitting opening turned
- in a direction of a surface to be illuminated;
- at least one lamp in said housing for producing light
- 6 which is emitted in a light cone toward said surface; and
- a lens plate disposed across said opening and comprised
- of a multiplicity of microlenses for rendering the light cone as
- 9 it passes through said lens plate substantially homogeneous and
- sharp-edged where said light cone meets said surface.
- 1 2. The assembly lamp defined in claim 1 mounted so
- that said surface is a floor.
- 3. The lamp assembly defined in claim 1 wherein said
- microlenses are directly adjacent one another.
- 1 4. The lamp assembly defined in claim 3 wherein said
- microlenses are formed as structuring of at least one surface of
- said lens plate.
- 5. The lamp assembly defined in claim 4 wherein said
- lens plate has a surface turned toward said lamp and another
- surface turned away from said lamp and toward an exterior of said
- 4 housing, one of said surfaces being formed with contiguous

- generally spherical recesses, the other of said surfaces being
- formed with contiguous generally spherical convexities, said
- 7 convexities and said recesses forming said microlenses.
- 6. The lamp assembly defined in claim 5 wherein said
- convexities are on said surface turned toward the exterior of
- said housing and said recesses are on said surface turned toward
- 4 said lamp.
- 7. The lamp assembly defined in claim 6 wherein a
- spacing ΔS between midpoints of adjacent recesses or adjacent
- 3 convexities is less than 5mm.
- 1 8. The lamp assembly defined in claim 7 wherein ΔS
- is less than 3mm.
- 9. The lamp assembly defined in claim 7 wherein ΔS
- 2 is less than 2mm.
- 10. The lamp assembly defined in claim 7 wherein ΔS
- is more than 1mm.
- 1 11. The lamp assembly defined in claim 7 wherein said
- recesses and said convexities are respectively flush with one
- another.

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- 1 12. The lamp assembly defined in claim 7 wherein said lens plate is composed of a plastic.
- 13. The lamp assembly defined in claim 12 wherein said
 2 lens plate is composed of polymethylmethacrylate.
- 14. The lamp assembly defined in claim 12 wherein said lens plate is an injection-molded article.
- 15. The lamp assembly defined in claim 7 wherein said lens plate is formed in one piece.
- 16. The lamp assembly defined in claim 7 wherein said opening is substantially fully closed by said lens plate.